

Pending Claims

The following is a listing of the pending claims in the application:

1. (Previously presented) A contactless push-button device comprising:
 - a push-button element that is linearly displaceable between a first position and a second position and biased to move from the second position to the first position;
 - a magnet mounted to the push button element;
 - a Hall Effect transducer mounted in line with the linear displacement direction of the push-button so that when the push-button moves from the first position to the second position the distance between the magnet and the Hall Effect transducer changes; and
 - a programmable microprocessor for being assigned a unique address, the programmable microprocessor electrically connected to the Hall Effect transducer and programmed to execute a field averaging algorithm to compensate for changes in quiescent Hall Effect voltages.
2. (Original) The contactless push-button device of claim 1, further comprising a plate mounted between the push-button element and the Hall Effect Transducer.
3. (Original) The contactless push-button device of claim 1, further comprising a feedback device that is electrically connected to the microprocessor.
4. (Original) The contactless push-button device of claim 1, further comprising a system controller that is interfaced with the microprocessor, the controller assigning an address to the push-button device during a start-up procedure.
5. (Original) The contactless push-button device of claim 1, wherein the microprocessor is programmed to contain a unique address.
6. (Original) The contactless push-button device of claim 3 further comprising:
 - a serial bus connected to the microprocessor; and
 - an elevator controller connected to the serial bus.

7. (Original) The contactless push-button switch of claim 6, wherein the serial bus is an RS 485 bus.

8-12. (Canceled)

13. (Previously presented) A contactless, rotary switch device comprising:

- a rotating disk having a surface;
- one or more magnets disposed on the disk;
- one or more Hall Effect transducers located on a planar surface that is parallel to the surface of the disk, the distance between the Hall Effect transducers and the magnets varying as the disk rotates; and
- a programmable microprocessor that is electrically connected to the microprocessor and programmed to execute a field averaging algorithm to compensate for changes in quiescent Hall Effect voltages.

14. (Original) The device of claim 13, further comprising a system controller that is interfaced with the microprocessor, the controller for assigning an address to the rotary switch device during a start-up procedure.

15. (Original) The device of claim 13, wherein the microprocessor is programmed to contain a unique address.

16. (Original) The device of claim 13 further comprising:

- a serial bus connected to the microprocessor; and
- an elevator controller connected to the serial bus.

17-20. (Canceled)